

DEVICE FOR MEASURING THE
TEMPERATURE OF A MOLTEN METAL

Abstract of the Disclosure

SA

5 The present invention is a device for
measuring the temperature of a molten metal. The
device includes a thermocouple element, a housing
consisting of a heat-resistant material and a
retainer member for receiving the thermocouple
element. The retainer member has an open end and a
10 closed end. The thermocouple element has a hot
junction located proximate the closed end of the
retainer member. The retainer member is positioned
within the housing and is smaller in size than the
housing to define a cavity therebetween. The
15 cavity is substantially filled by a protective
material which includes a metal oxide component and
an oxygen reducing component.

EA